

Approximations of integer vibrations on an equal-tempered keyboard

for electronic organ

Erik Carlson

9000.000001013963 vibrations

9000.999996034207 vibrations

9001.999997366122 vibrations

9003.000000409396 vibrations

9003.99999650372 vibrations

9005.000000984654 vibrations

10

9006.000000119244 vibrations

9006.999993673302 vibrations

9008.000000126443 vibrations

9008.999999378568 vibrations

9010.000002123041 vibrations

9011.000000598113 vibrations

21

9011.99999900980 vibrations

9013.000001795976 vibrations

9014.000001314373 vibrations

9014.999999158137 vibrations

9015.999997739935 vibrations

9016.99999961985 vibrations

9017.999996774046 vibrations

9018.999996967708 vibrations

28

9020.000001858310 vibrations

9020.999999715486 vibrations

9022.000001344357 vibrations

9022.999999164933 vibrations

9024.000001904777 vibrations

9024.999998470628 vibrations

40

9025.999999751779 vibrations

9027.000000810169 vibrations

9027.999999099320 vibrations

9029.000000402457 vibrations

9030.000001481354 vibrations

52

9031.000002163755 vibrations

9032.000000851524 vibrations

9032.999999493435 vibrations

9033.9999998538035 vibrations

9034.999998489502 vibrations

9035.999999484777 vibrations

62

9036.999999295636 vibrations

9038.000000167924 vibrations

9039.000000491325 vibrations

9039.999999426185 vibrations

9041.000000341108 vibrations

9042.0000001622813 vibrations

71

9042.999998148593 vibrations

9043.999999801081 vibrations

9045.000000336919 vibrations

9046.000000128432 vibrations

81

9046.99999935299 vibrations

9048.000000235035 vibrations

9048.999997828478 vibrations

9049.99999895728 vibrations

91

9051.000000351365 vibrations

9052.000000697644 vibrations

9052.999999012471 vibrations

9053.99999928519 vibrations

9054.999998256253 vibrations

9056.000000528926 vibrations

102

9056.999998433172 vibrations
9058.000002501461 vibrations
9059.000001385568 vibrations
9059.999997902421 vibrations
9060.999998270685 vibrations
9062.000000845888 vibrations

112

9063.000000075941 vibrations
9064.000000357288 vibrations
9064.999999116559 vibrations
9066.99999969092 vibrations
9066.000000629507 vibrations
9067.999998685105 vibrations

124

9069.0000003342475 vibrations
9070.000000102682 vibrations
9071.000002524293 vibrations
9071.999998886200 vibrations

136

9072.999999981346 vibrations
9074.000002351955 vibrations
9075.000000000002 vibrations
9076.000001892393 vibrations
9077.000000780659 vibrations

148

9078.000000961412 vibrations
9079.0000001307189 vibrations
9079.999997565423 vibrations
9080.999998854353 vibrations
9081.999999451617 vibrations
9083.000002974328 vibrations

161

9084.000001021099 vibrations

9085.000000927514 vibrations

9085.999998741134 vibrations

9087.999998467292 vibrations

9088.999999688858 vibrations

9090.000003005198 vibrations

9091.000000290378 vibrations

173

9092.000000487456 vibrations

9092.999999674446 vibrations

9094.000002769499 vibrations

9095.000004056197 vibrations

9095.999999138730 vibrations

9097.000002336163 vibrations

183

9098.000000016856 vibrations

9098.999997600618 vibrations

9099.999998816544 vibrations

9100.999998750533 vibrations

9101.999998710606 vibrations

196

9102.999999322019 vibrations

9103.999999544239 vibrations

9104.999999859454 vibrations

9105.999998998164 vibrations

9107.000001399778 vibrations

9108.000002632361 vibrations

9108.999997216837 vibrations

9109.999999645195 vibrations

204

9111.000001550892 vibrations

9111.999998248943 vibrations

9112.999997064320 vibrations

9114.000000101258 vibrations

216

9115.000001568867 vibrations
9115.999997746476 vibrations

9117.000000036867 vibrations
9118.000001036404 vibrations

9119.000000346679 vibrations
9119.999989276273 vibrations

226

9121.000001959936 vibrations
9122.000001726303 vibrations

9123.000000621352 vibrations
9124.000001274459 vibrations

237

9125.000001129802 vibrations
9126.000001339517 vibrations

9126.999997099569 vibrations
9127.99999683543 vibrations

9129.000000347309 vibrations

247

9129.999998493606 vibrations
9130.999999408952 vibrations

9131.999999776717 vibrations
9132.999997241197 vibrations
9134.000000100175 vibrations

260

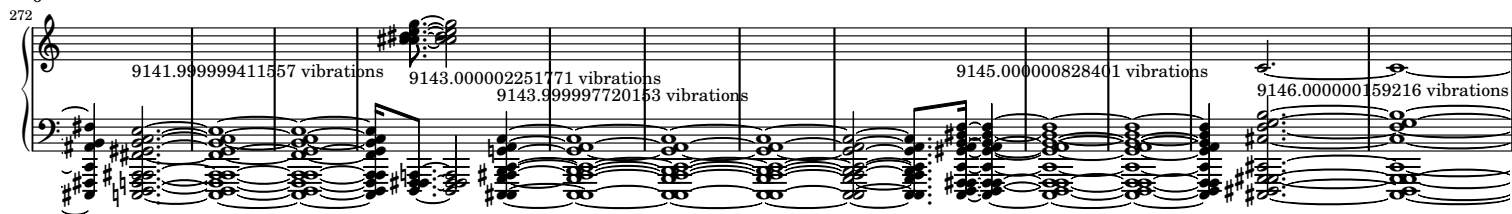
9135.000002920053 vibrations
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9138.000002084818 vibrations

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9140.000001081682 vibrations

9141.000001369330 vibrations

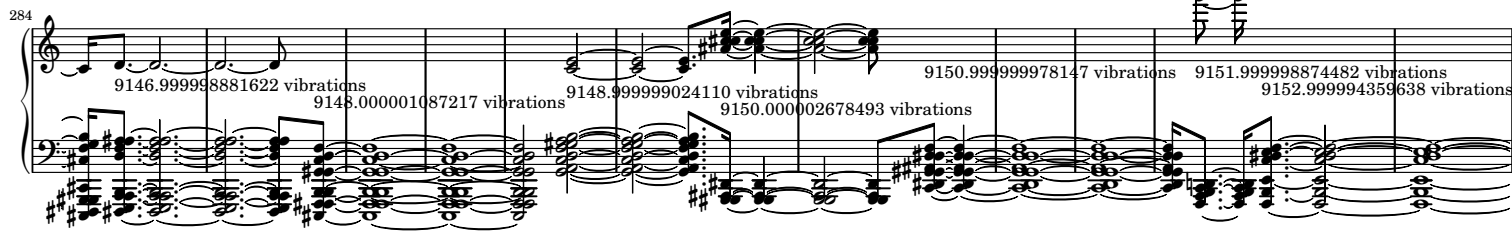
272



9141.99999411557 vibrations 9143.000002251771 vibrations
9143.99997720153 vibrations 9145.000000828401 vibrations
9146.000000159216 vibrations

This system contains the first five measures of a musical piece. It features a treble and bass staff with complex, dense chordal textures. The notes are primarily eighth and sixteenth notes, creating a shimmering, vibrating effect. The key signature has two sharps (F# and C#).

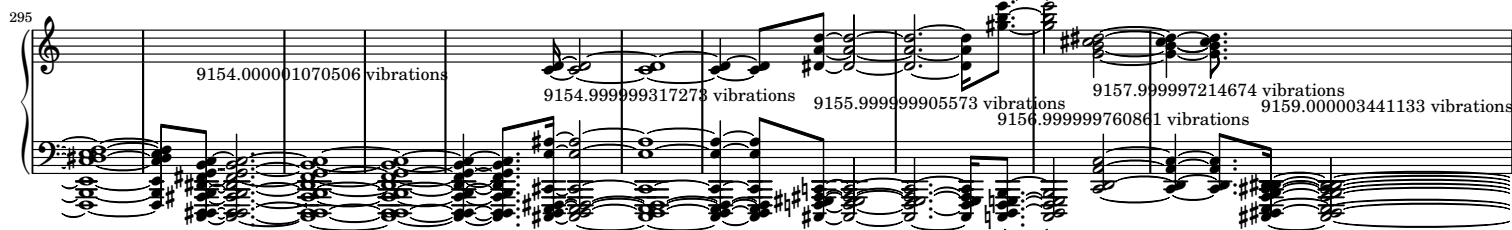
284



9146.999998881622 vibrations 9148.000001087217 vibrations 9148.999999024110 vibrations
9150.000002678493 vibrations 9150.999999978147 vibrations 9151.999998874482 vibrations
9152.999994359638 vibrations

This system contains measures 6 through 10. The musical texture continues with dense, overlapping notes. The treble staff has some melodic movement, while the bass staff remains highly textured. The key signature remains two sharps.

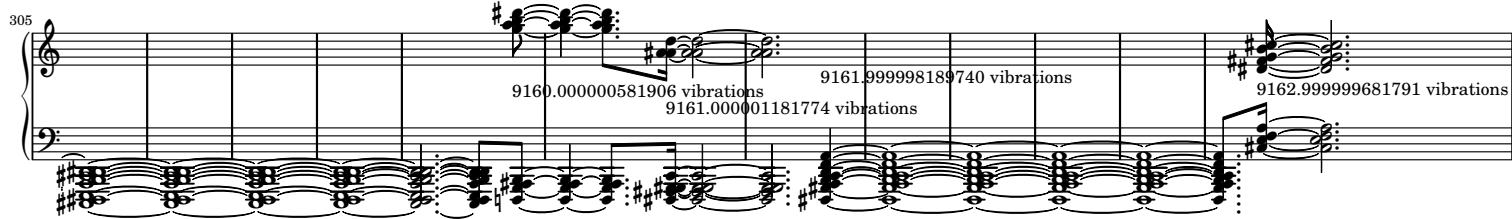
295



9154.000001070506 vibrations 9154.999999317273 vibrations 9155.999999905573 vibrations
9156.999999760861 vibrations 9157.999997214674 vibrations 9159.000003441133 vibrations

This system contains measures 11 through 15. The complexity of the chordal textures is maintained. The treble staff shows some more defined melodic lines. The key signature remains two sharps.

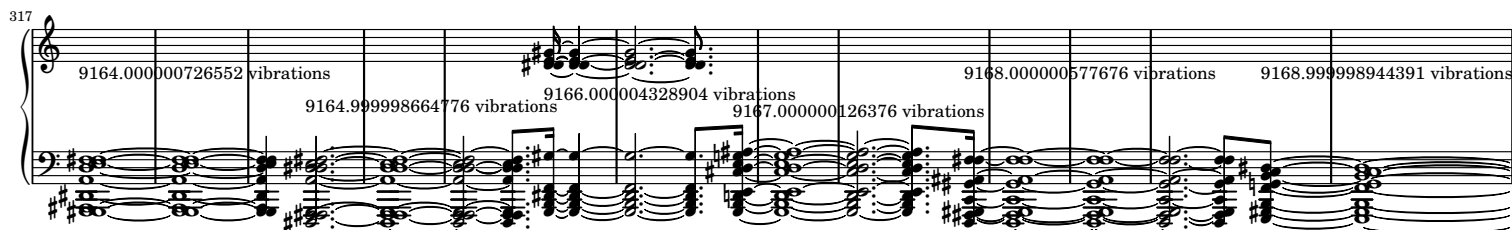
305



9160.000000581906 vibrations 9161.999998189740 vibrations
9161.000001181774 vibrations 9162.999999681791 vibrations

This system contains measures 16 through 19. The musical texture is dense and complex. The treble staff has some more defined melodic lines. The key signature remains two sharps.

317



9164.000000726552 vibrations 9164.999998664776 vibrations 9166.000004328904 vibrations
9167.000000126376 vibrations 9168.000000577676 vibrations 9168.999998944391 vibrations

This system contains measures 20 through 24. The musical texture is dense and complex. The treble staff has some more defined melodic lines. The key signature remains two sharps.

329

9169.999999632380 vibrations
 9170.999998500212 vibrations
 9171.99999822210 vibrations
 9172.99999850732 vibrations
 9174.000003208055 vibrations
 9175.000001502827 vibrations
 9176.000000464772 vibrations

339

9177.000001157832 vibrations
 9178.000003507568 vibrations
 9179.000000510710 vibrations
 9180.000001175596 vibrations
 9181.000000454340 vibrations
 9181.999999342917 vibrations

350

9182.999999679383 vibrations
 9184.000002604456 vibrations
 9185.000001818358 vibrations
 9186.999995223016 vibrations
 9185.999998227033 vibrations

364

9188.999999952446 vibrations
 9187.999999670190 vibrations
 9189.999997783896 vibrations
 9191.000001113047 vibrations
 9192.000000754231 vibrations

377

9193.000001687609 vibrations
 9193.999998906338 vibrations
 9194.999998545896 vibrations
 9196.000001070997 vibrations
 9197.000001938104 vibrations

389



9197.99999508864 vibrations

9200.00000467193 vibrations

9198.99999942000 vibrations

This system contains two staves. The upper staff has a treble clef and a key signature of two sharps (F# and C#). It features a melodic line with some grace notes and a final chord. The lower staff has a bass clef and a key signature of two sharps, with a dense, continuous texture of chords and arpeggios.

404



9201.000001669807 vibrations

9201.999999921425 vibrations

9202.999999140407 vibrations

9204.000000939352 vibrations

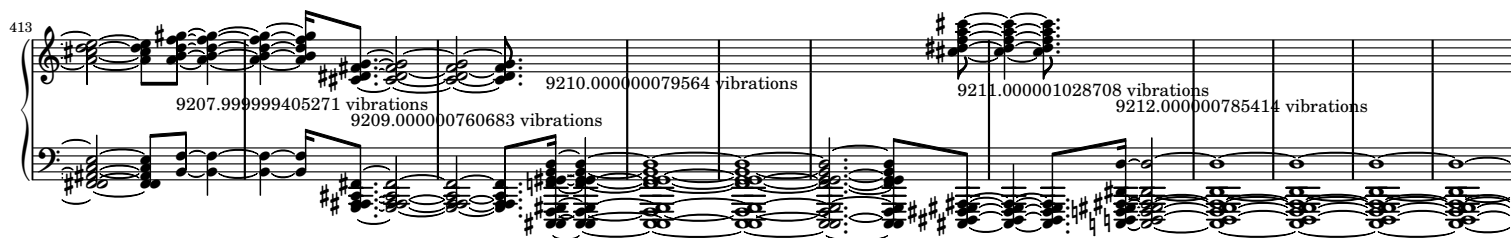
9205.000001694481 vibrations

9205.999998487474 vibrations

9206.999999069325 vibrations

This system contains two staves. The upper staff has a treble clef and a key signature of two sharps. It features a melodic line with some grace notes and a final chord. The lower staff has a bass clef and a key signature of two sharps, with a dense, continuous texture of chords and arpeggios.

413



9207.999999405271 vibrations

9209.000000760683 vibrations

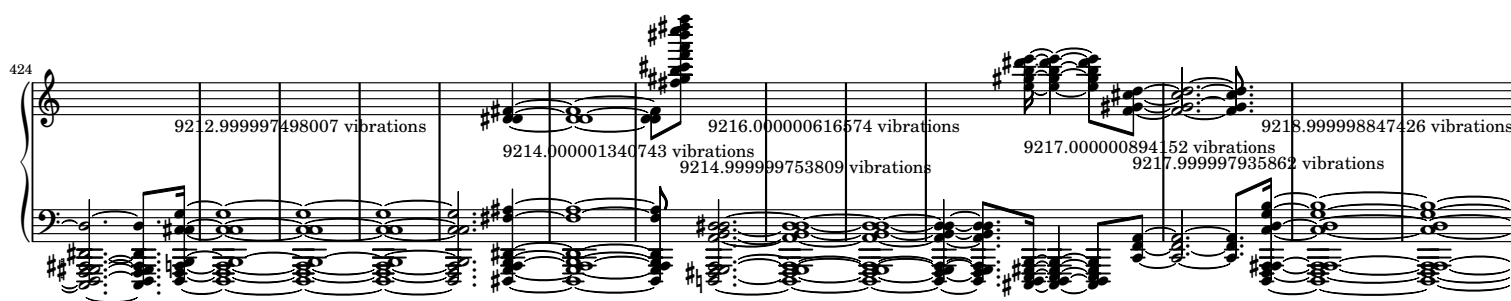
9210.000000079564 vibrations

9211.000001028708 vibrations

9212.0000000785414 vibrations

This system contains two staves. The upper staff has a treble clef and a key signature of two sharps. It features a melodic line with some grace notes and a final chord. The lower staff has a bass clef and a key signature of two sharps, with a dense, continuous texture of chords and arpeggios.

424



9212.999997498007 vibrations

9214.000001340743 vibrations

9214.999999753809 vibrations

9216.000000616574 vibrations

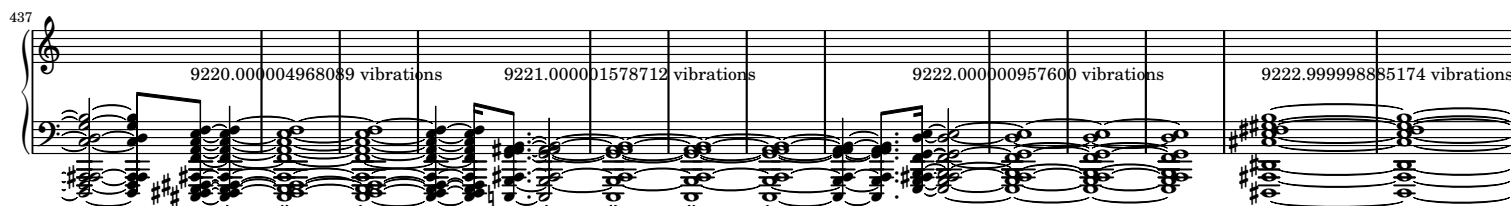
9217.000000089452 vibrations

9217.999997935862 vibrations

9218.999998847426 vibrations

This system contains two staves. The upper staff has a treble clef and a key signature of two sharps. It features a melodic line with some grace notes and a final chord. The lower staff has a bass clef and a key signature of two sharps, with a dense, continuous texture of chords and arpeggios.

437



9220.000004968089 vibrations

9221.000001578712 vibrations

9222.0000000957600 vibrations

9222.999998885174 vibrations

This system contains two staves. The upper staff has a treble clef and a key signature of two sharps. It features a melodic line with some grace notes and a final chord. The lower staff has a bass clef and a key signature of two sharps, with a dense, continuous texture of chords and arpeggios.

450

9223.999999714648 vibrations
9224.999999059983 vibrations
9226.000000562977 vibrations
9228.000001036404 vibrations
9226.999998070285 vibrations
9229.000000222242 vibrations

460

9229.99999586929 vibrations
9231.000000170801 vibrations
9231.999999681038 vibrations
9233.999996899402 vibrations
9232.999997815125 vibrations
9234.999997889083 vibrations
9235.999999116901 vibrations
9236.999994018466 vibrations

469

9238.000000432830 vibrations
9239.000000647962 vibrations
9240.000000000002 vibrations
9241.000000220505 vibrations
9241.99999910391 vibrations

480

9243.000000877682 vibrations
9243.999998231819 vibrations
9245.000000084379 vibrations
9247.000000168084 vibrations
9245.999993739018 vibrations
9248.000000319884 vibrations

492

9248.999999720414 vibrations
9250.000002950750 vibrations
9250.999998677025 vibrations
9252.000003033112 vibrations
9253.000001853748 vibrations

503

9253.999999680935 vibrations
 9254.9999992437664 vibrations
 9256.000001403507 vibrations
 9256.999999948306 vibrations
 9257.999997641800 vibrations

This system contains a grand staff with treble and bass clefs. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of one sharp (F#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system is labeled with the number 503 in the top left corner.

515

9258.999999659702 vibrations
 9260.000003433701 vibrations
 9260.999999714553 vibrations
 9262.000000092818 vibrations
 9263.000000518943 vibrations

This system contains a grand staff with treble and bass clefs. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of one sharp (F#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system is labeled with the number 515 in the top left corner.

525

9264.000000664782 vibrations
 9265.000000173064 vibrations
 9266.000001995346 vibrations
 9266.999999835138 vibrations
 9267.999998144589 vibrations
 9269.000003425919 vibrations

This system contains a grand staff with treble and bass clefs. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of one sharp (F#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system is labeled with the number 525 in the top left corner.

534

9269.999997891868 vibrations
 9271.000001575156 vibrations
 9271.999994280583 vibrations
 9273.000000255586 vibrations
 9274.000003321378 vibrations
 9275.000003982022 vibrations

This system contains a grand staff with treble and bass clefs. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of one sharp (F#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system is labeled with the number 534 in the top left corner.

545

9276.000001095548 vibrations
 9277.000000241043 vibrations
 9278.000000795500 vibrations
 9279.000000508333 vibrations
 9279.999996317238 vibrations
 9280.999998708437 vibrations

This system contains a grand staff with treble and bass clefs. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of one sharp (F#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system is labeled with the number 545 in the top left corner.

555

9281.999999462461 vibrations
9282.999997231622 vibrations
9283.999999296913 vibrations
9285.000004356954 vibrations
9286.000001005646 vibrations

568

9287.000000258777 vibrations
9287.99999963102 vibrations
9288.999999396257 vibrations
9289.999999750533 vibrations

581

9290.999999155987 vibrations
9292.000000413738 vibrations
9293.99999899148 vibrations
9295.000000000002 vibrations
9295.999999124855 vibrations
9293.000000221971 vibrations

592

9296.999998206727 vibrations
9297.999999634165 vibrations
9299.00000014135 vibrations
9300.000000748802 vibrations
9300.999999032761 vibrations
9302.000000992983 vibrations

605

9303.000000259861 vibrations
9303.999998841366 vibrations
9304.999999804055 vibrations
9306.000005447613 vibrations
9308.999998030011 vibrations
9306.999999520318 vibrations
9307.999997526531 vibrations

12
615

9310.000000800223 vibrations
9311.000000268366 vibrations
9311.999999762920 vibrations
9312.999999801881 vibrations

This system contains measures 615 through 626. It features a complex piano accompaniment with dense chords and arpeggios in both hands. The right hand has a melodic line with some grace notes. The key signature has two sharps (F# and C#).

627

9314.000000308268 vibrations
9315.000000022923 vibrations
9316.000001671990 vibrations
9316.999997398118 vibrations
9317.999998819289 vibrations

This system contains measures 627 through 638. The piano accompaniment continues with similar dense textures. The right hand has a more active melodic line with some triplets. The key signature has two sharps.

639

9318.999994071231 vibrations
9319.999997504488 vibrations
9320.999999149533 vibrations
9321.999998506530 vibrations
9322.999998144589 vibrations
9324.000009486979 vibrations
9325.000000625470 vibrations

This system contains measures 639 through 650. The piano accompaniment features some more complex rhythmic patterns. The right hand has a melodic line with some grace notes. The key signature has two sharps.

650

9325.999999504407 vibrations
9327.000000933804 vibrations
9327.999998708465 vibrations
9328.999998933639 vibrations
9330.000000144530 vibrations
9331.000002055454 vibrations
9331.999998778299 vibrations

This system contains measures 650 through 661. The piano accompaniment continues with dense textures. The right hand has a melodic line with some grace notes. The key signature has two sharps.

660

9333.000000623460 vibrations
9333.999996568922 vibrations
9334.999999005697 vibrations
9335.999999158410 vibrations
9336.999997656772 vibrations
9337.999999489859 vibrations
9338.999999723705 vibrations
9340.000000478543 vibrations

This system contains measures 660 through 671. The piano accompaniment continues with dense textures. The right hand has a melodic line with some grace notes. The key signature has two sharps.

671

9340.999999738135 vibrations
 9341.999998378529 vibrations
 9343.000000376916 vibrations
 9344.000000720151 vibrations
 9345.000001874549 vibrations
 9346.000001629007 vibrations

683

9346.999999575599 vibrations
 9347.999999497280 vibrations
 9349.000000862146 vibrations
 9349.999999999998 vibrations
 9351.000000755099 vibrations
 9352.000002676439 vibrations

695

9352.999998388124 vibrations
 9353.999998613050 vibrations
 9355.000001270681 vibrations
 9356.000001071148 vibrations
 9357.000000590238 vibrations
 9358.000001887554 vibrations

706

9359.000000236792 vibrations
 9359.999998847452 vibrations
 9360.999999983367 vibrations
 9361.999999655753 vibrations
 9362.999998881167 vibrations

717

9363.999994685684 vibrations
 9364.999999657899 vibrations
 9365.999999767520 vibrations
 9366.999999313097 vibrations
 9368.000002466135 vibrations
 9368.999999554362 vibrations
 9369.999999571593 vibrations

725

9370.999998351708 vibrations
9372.000000713075 vibrations

9372.999998889780 vibrations

9373.999999121603 vibrations
9375.000000484919 vibrations

9376.000000565564 vibrations

735

9376.99999905564 vibrations

9377.999999598767 vibrations
9378.999999544239 vibrations

9381.000001271125 vibrations
9379.999999754566 vibrations

9382.000003597366 vibrations
9382.999998205152 vibrations

745

9384.000001072181 vibrations

9385.000000369710 vibrations

9385.999997343068 vibrations
9387.000001835035 vibrations

9387.999998964142 vibrations

755

9389.000001168646 vibrations
9389.999998516216 vibrations

9391.00000308228 vibrations
9392.000003299228 vibrations

9392.99999627073 vibrations
9394.000001347076 vibrations

9395.000000477578 vibrations

764

9396.000000538828 vibrations
9396.999999337644 vibrations

9398.000001087017 vibrations

9398.999999471696 vibrations

9399.999998630556 vibrations
9402.000000729347 vibrations

9400.999997113100 vibrations

774

9403.000000394017 vibrations
9404.000000528122 vibrations
9405.000000000002 vibrations
9405.999999393838 vibrations
9406.999999184955 vibrations

786

9408.000000507187 vibrations
9409.000000073449 vibrations
9410.000000371116 vibrations
9411.0000002084187 vibrations

799

9411.999999891563 vibrations
9413.0000001330278 vibrations
9414.0000003130386 vibrations
9414.9999998192212 vibrations
9416.0000002110110 vibrations
9417.0000002114579 vibrations

810

9417.999999947717 vibrations
9419.0000002617890 vibrations
9420.000000998081 vibrations
9421.000000010265 vibrations

822

9421.9999998695785 vibrations
9423.000000116874 vibrations
9424.0000001594179 vibrations
9425.0000003538989 vibrations

833

9425.999999326168 vibrations
9426.999999897356 vibrations
9428.000000083593 vibrations
9428.999998751928 vibrations

This system contains measures 833 through 845. The notation features a complex interplay of notes and rests in both staves, with sharp signs indicating specific frequencies. The vibrational values are printed above the notes in the upper staff.

846

9429.99999718997 vibrations
9431.000000035989 vibrations
9432.000001120448 vibrations
9433.000000793409 vibrations
9434.000000653517 vibrations

This system contains measures 846 through 856. The musical notation continues with various note values and rests, maintaining the complex harmonic structure. The vibrational values are printed above the notes in the upper staff.

857

9434.999997363717 vibrations
9436.000002650047 vibrations
9436.99999883050 vibrations
9437.999999030069 vibrations
9438.999999133661 vibrations

This system contains measures 857 through 866. The notation shows a continuation of the complex musical texture with various note values and rests. The vibrational values are printed above the notes in the upper staff.

867

9440.999997109175 vibrations
9439.99999916594 vibrations
9442.000000710828 vibrations
9442.999999301783 vibrations
9443.999998470603 vibrations

This system contains measures 867 through 878. The musical notation continues with various note values and rests, maintaining the complex harmonic structure. The vibrational values are printed above the notes in the upper staff.

879

9445.000001101092 vibrations
9445.000000213648 vibrations
9447.000002486044 vibrations
9448.000009032738 vibrations
9449.000002226414 vibrations
9450.000000489737 vibrations
9451.000000536755 vibrations

This system contains measures 879 through 890. The musical notation continues with various note values and rests, maintaining the complex harmonic structure. The vibrational values are printed above the notes in the upper staff.

891

9452.00002242474 vibrations

9453.000001696579 vibrations

9454.000000406473 vibrations

9454.999998651429 vibrations

9456.000000874890 vibrations

9456.999996781942 vibrations

This system contains measures 891 through 901. The notation is in treble and bass staves with a key signature of two sharps (F# and C#). It features complex rhythmic patterns with many beamed notes and rests. Numerical vibration values are placed above specific notes in the treble staff.

902

9458.000006571241 vibrations

9458.999998795676 vibrations

9459.999999618773 vibrations

9460.99999886748 vibrations

9461.999999958289 vibrations

9463.000000104395 vibrations

9463.999997876916 vibrations

This system contains measures 902 through 912. The notation continues with complex rhythmic patterns. Numerical vibration values are placed above notes in the treble staff.

913

9465.000002549716 vibrations

9465.999997065857 vibrations

9466.999998773259 vibrations

9467.999999014279 vibrations

9469.000001496752 vibrations

9470.000001974800 vibrations

This system contains measures 913 through 924. The notation includes complex rhythmic patterns and rests. Numerical vibration values are placed above notes in the treble staff.

925

9470.999999311371 vibrations

9471.9999996346000 vibrations

9472.999999976042 vibrations

9474.000001152581 vibrations

9474.999993222475 vibrations

9476.000000637017 vibrations

9477.000000066950 vibrations

9477.999996996607 vibrations

9478.999997944959 vibrations

This system contains measures 925 through 932. The notation includes complex rhythmic patterns and rests. Numerical vibration values are placed above notes in the treble staff.

933

9480.000000900189 vibrations

9480.999999940341 vibrations

9481.999998758691 vibrations

9483.000000822101 vibrations

9484.000002206038 vibrations

This system contains measures 933 through 944. The notation includes complex rhythmic patterns and rests. Numerical vibration values are placed above notes in the treble staff.

945

9484.999996589506 vibrations

9486.000001064916 vibrations

9487.000003091733 vibrations

9487.999999602647 vibrations

9489.000000733868 vibrations

956

9490.000000441696 vibrations

9491.000000691476 vibrations

9492.000000998447 vibrations

9492.999999775237 vibrations

9494.000001775252 vibrations

967

9494.999999963607 vibrations

9496.000000352411 vibrations

9497.000001415940 vibrations

9498.000000382068 vibrations

979

9499.000000521730 vibrations

9499.99999937889 vibrations

9501.000001298529 vibrations

9502.000001578774 vibrations

9502.999999159369 vibrations

9503.999996559882 vibrations

988

9505.000001654922 vibrations

9505.99999976499 vibrations

9507.000001899616 vibrations

9507.999996312737 vibrations

9509.000000710577 vibrations

9510.00000110882 vibrations

9511.000000302442 vibrations

997

9511.999998209682 vibrations
9512.999999361718 vibrations
9514.000000745846 vibrations
9514.999997320854 vibrations
9516.000001953886 vibrations
9516.999999430704 vibrations
9517.999999806792 vibrations

1006

9518.999995840215 vibrations
9520.000000781454 vibrations
9521.000000066942 vibrations
9522.000002794670 vibrations
9523.000000134201 vibrations

1019

9523.999998205290 vibrations
9524.999999932737 vibrations
9525.999999379563 vibrations
9526.999998896064 vibrations
9528.000002747534 vibrations
9529.000001909342 vibrations

1031

9529.99999292453 vibrations
9530.999998925554 vibrations
9532.000004421297 vibrations
9533.000000232025 vibrations
9533.999996824670 vibrations
9534.999998550969 vibrations

1040

9536.000000656966 vibrations
9536.999996882647 vibrations
9537.99999940055 vibrations
9539.000001287919 vibrations
9539.999999758635 vibrations

1050

9540.999999020743 vibrations

9541.99999905564 vibrations
9543.000004828589 vibrations

9543.999999343598 vibrations
9544.999998425128 vibrations

9545.99999993919 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of one sharp (F#). The lower staff has a bass clef and a key signature of one sharp (F#). The music consists of complex chords and melodic lines. The first measure is marked with the number 1050. The system includes several numerical labels for vibrations, such as 9540.999999020743, 9541.99999905564, 9543.000004828589, 9543.999999343598, 9544.999998425128, and 9545.99999993919.

1060

9547.000004189949 vibrations

9548.000000110329 vibrations
9548.999999372481 vibrations

9549.999997508343 vibrations
9550.999998407076 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of one sharp (F#). The lower staff has a bass clef and a key signature of one sharp (F#). The music consists of complex chords and melodic lines. The first measure is marked with the number 1060. The system includes several numerical labels for vibrations, such as 9547.000004189949, 9548.000000110329, 9548.999999372481, 9549.999997508343, and 9550.999998407076.

1071

9551.999999749512 vibrations

9552.999994773998 vibrations

9554.000000109128 vibrations
9554.999999304177 vibrations

9556.000003405645 vibrations

9557.000000105338 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of one sharp (F#). The lower staff has a bass clef and a key signature of one sharp (F#). The music consists of complex chords and melodic lines. The first measure is marked with the number 1071. The system includes several numerical labels for vibrations, such as 9551.999999749512, 9552.999994773998, 9554.000000109128, 9554.999999304177, 9556.000003405645, and 9557.000000105338.

1080

9558.000000905966 vibrations
9559.000003204745 vibrations

9559.999998716121 vibrations

9561.000000141985 vibrations

9562.000000179612 vibrations

9563.000000381584 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of one sharp (F#). The lower staff has a bass clef and a key signature of one sharp (F#). The music consists of complex chords and melodic lines. The first measure is marked with the number 1080. The system includes several numerical labels for vibrations, such as 9558.000000905966, 9559.000003204745, 9559.999998716121, 9561.000000141985, 9562.000000179612, and 9563.000000381584.

1091

9564.000000989043 vibrations

9565.000004399164 vibrations

9565.999999389724 vibrations

9566.999999116077 vibrations

9568.000002185354 vibrations

9568.999998831187 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of one sharp (F#). The lower staff has a bass clef and a key signature of one sharp (F#). The music consists of complex chords and melodic lines. The first measure is marked with the number 1091. The system includes several numerical labels for vibrations, such as 9564.000000989043, 9565.000004399164, 9565.999999389724, 9566.999999116077, 9568.000002185354, and 9568.999998831187.

1102

9570.000001667666 vibrations

9570.999999344387 vibrations

9571.999998947882 vibrations

9572.999997331272 vibrations

9573.999992339586 vibrations

9575.000000676506 vibrations

1113

9573.000000951626 vibrations

9576.999998855063 vibrations

9577.99999547103 vibrations

9578.999996714592 vibrations

9579.999998928030 vibrations

1126

9580.999999479967 vibrations

9582.000001704226 vibrations

9583.000001009241 vibrations

9583.999999483869 vibrations

1139

9585.000001474968 vibrations

9586.000000731266 vibrations

9587.000000986882 vibrations

9588.000001204635 vibrations

9589.000000825228 vibrations

9590.000000186090 vibrations

9590.999999796770 vibrations

1149

9592.000002803543 vibrations

9593.000000468488 vibrations

9593.999999939691 vibrations

1162

9594.999998395680 vibrations

9596.000000614717 vibrations

9597.000000183372 vibrations

9597.999998554078 vibrations

9598.999999232610 vibrations

9600.000004259024 vibrations

This system contains two staves of music. The upper staff features a series of chords and single notes, with some notes marked with vibrato lines. The lower staff provides a harmonic accompaniment with dense chordal textures. Numerical values for vibrations are placed above specific notes in the upper staff.

1174

9600.999997489840 vibrations

9601.999999715674 vibrations

9603.000001731956 vibrations

9604.000007037232 vibrations

9604.999999830887 vibrations

This system continues the musical piece with similar harmonic structures. The upper staff has more complex chordal passages, while the lower staff maintains a steady accompaniment. Numerical vibration data is provided for several notes in the upper staff.

1184

9606.000000249040 vibrations

9607.000000126374 vibrations

9608.000002199671 vibrations

9609.000000101258 vibrations

9610.000001510625 vibrations

9611.000001896602 vibrations

This system shows further development of the musical themes. The upper staff includes some higher-register chords, and the lower staff continues with its accompaniment. Numerical vibration values are placed above notes in the upper staff.

1194

9611.999998756230 vibrations

9613.000000550988 vibrations

9613.999997732957 vibrations

9614.99999777462 vibrations

9616.000000106575 vibrations

9616.999999512900 vibrations

9617.999998800724 vibrations

This system contains more complex harmonic textures in the upper staff, with some notes marked with vibrato. The lower staff provides a consistent accompaniment. Numerical vibration data is provided for several notes in the upper staff.

1206

9619.000000475540 vibrations

9619.999998677977 vibrations

9620.999999115901 vibrations

9622.00000058832 vibrations

9623.000000576387 vibrations

9623.999999027181 vibrations

9625.000000000002 vibrations

This system concludes the page with final harmonic statements. The upper staff features some sustained chords, and the lower staff provides a final accompaniment. Numerical vibration values are placed above notes in the upper staff.

1215

9625.999996884597 vibrations

9627.000001648927 vibrations

9627.99999955699 vibrations

9629.000002353650 vibrations

9630.000001573186 vibrations

9630.999998562505 vibrations

1224

9632.000000759399 vibrations

9632.999999224099 vibrations

9634.000000258364 vibrations

9635.000000197762 vibrations

9635.999999741698 vibrations

1237

9636.999995828823 vibrations

9638.000002084233 vibrations

9639.000000089090 vibrations

9640.000000823176 vibrations

9640.999999518916 vibrations

9641.999999984157 vibrations

9643.000002511844 vibrations

9644.000003044133 vibrations

9645.000000119790 vibrations

1245

9646.000002331179 vibrations

9647.000000014827 vibrations

9647.999999998287 vibrations

9649.000000185619 vibrations

9650.000000520393 vibrations

1256

9651.000002796931 vibrations

9652.000001112898 vibrations

9653.000000372907 vibrations

9653.999999731432 vibrations

1266

9654.999998663608 vibrations
9653.999999822885 vibrations

9657.000005464111 vibrations

9658.000003329083 vibrations

9659.000000238582 vibrations

1276

9660.000002180961 vibrations

9661.000000979830 vibrations

9661.999998962707 vibrations

9662.999998751437 vibrations

9664.000000508331 vibrations

1286

9664.999999952288 vibrations

9666.000003095411 vibrations

9667.000003374415 vibrations

9668.000001160173 vibrations

9669.999997203968 vibrations

9671.000000877413 vibrations

9672.000004090096 vibrations

1295

9673.000001153923 vibrations

9673.999997552746 vibrations

9675.000001253147 vibrations

9676.000001707202 vibrations

9677.000000509886 vibrations

9678.000000653357 vibrations

1307

9679.00000458598 vibrations

9680.000000000002 vibrations

9681.000000545651 vibrations

9681.999995609669 vibrations

9683.00000097038 vibrations

1319

9683.999998221529 vibrations

9685.000000136437 vibrations

9685.999998586167 vibrations

9687.000002287296 vibrations

1330

9688.000000893573 vibrations

9689.000000620785 vibrations

9690.000003527843 vibrations

9691.000000439841 vibrations

1343

9691.999997984425 vibrations

9693.000005218508 vibrations

9693.999999046058 vibrations

9694.999998400906 vibrations

9696.000003763464 vibrations

9696.999999720385 vibrations

9698.00000018948 vibrations

1356

9698.99999589056 vibrations

9700.000000288373 vibrations

9700.999999618154 vibrations

9702.000002299135 vibrations

9703.000001375320 vibrations

9704.000001871396 vibrations

1369

9706.000000344546 vibrations

9704.999999065189 vibrations

9706.999997899517 vibrations

9708.000002923354 vibrations

9708.999998617650 vibrations

1384

9709.999999642867 vibrations
9711.000002023264 vibrations
9711.999999850093 vibrations
9713.000004344936 vibrations
9713.999999793034 vibrations
9714.999999172709 vibrations

This system contains two staves of music. The upper staff features a melodic line with several notes, while the lower staff provides a complex harmonic accompaniment with many beamed notes. Vertical lines connect specific notes between the staves, each accompanied by a numerical value representing vibrations.

1395

9716.000000776989 vibrations
9717.000000922693 vibrations
9717.999999989215 vibrations
9719.000002406565 vibrations
9720.000002236864 vibrations

This system continues the musical piece with two staves. The notation includes various note values and rests, with the lower staff being particularly dense with beamed sixteenth notes. Numerical vibration data is provided for several notes across both staves.

1406

9721.000001152854 vibrations
9722.000000239901 vibrations
9722.999996430834 vibrations
9723.999997611068 vibrations
9724.999998254671 vibrations
9725.999999940874 vibrations

This system shows two staves of music. The upper staff has a more active melodic line with some slurs, while the lower staff maintains a steady accompaniment. Numerical vibration values are placed above and below the staves to indicate specific frequencies.

1415

9726.999999519898 vibrations
9728.000000053295 vibrations
9729.000004927831 vibrations
9730.000000451661 vibrations
9730.999998851099 vibrations

This system consists of two staves. The music features a mix of eighth and sixteenth notes. The lower staff has a more complex texture with many beamed notes. Numerical vibration data is provided for several notes.

1427

9731.999997507304 vibrations
9732.999999081161 vibrations
9733.999998841044 vibrations
9734.999998493606 vibrations
9735.999996211045 vibrations
9736.999998854888 vibrations
9737.999993881444 vibrations
9738.999999323709 vibrations

This system contains two staves of music. The upper staff has a melodic line with some slurs, and the lower staff provides a dense accompaniment. Numerical vibration values are provided for several notes across both staves.

1434

9740.000000765369 vibrations

9740.999999186106 vibrations

9741.999999344125 vibrations

9742.999999083278 vibrations

This system contains a piano accompaniment with a treble and bass staff. The treble staff has a key signature of one sharp (F#) and a common time signature. The bass staff has a key signature of two sharps (F# and C#) and a common time signature. The music consists of a series of chords and single notes, with some notes beamed together. The system ends with a double bar line.

1448

9743.999996088898 vibrations

9744.999998369860 vibrations

9745.999998368567 vibrations

9747.999999268597 vibrations

9748.999995638362 vibrations

9749.999995401020 vibrations

This system continues the musical score with similar notation. It includes a treble staff with a key signature of one sharp and a bass staff with a key signature of two sharps. The music features a variety of note values and rests, with some notes beamed together. The system ends with a double bar line.

1459

9750.999999163560 vibrations

9751.999999928319 vibrations

9753.000000383550 vibrations

9753.999998945652 vibrations

9754.999999832013 vibrations

This system continues the musical score with similar notation. It includes a treble staff with a key signature of one sharp and a bass staff with a key signature of two sharps. The music features a variety of note values and rests, with some notes beamed together. The system ends with a double bar line.

1470

9756.000001161638 vibrations

9756.999997539600 vibrations

9758.000000454456 vibrations

9758.999999162277 vibrations

9760.000001393126 vibrations

9762.000001292527 vibrations

9760.999998767998 vibrations

This system continues the musical score with similar notation. It includes a treble staff with a key signature of one sharp and a bass staff with a key signature of two sharps. The music features a variety of note values and rests, with some notes beamed together. The system ends with a double bar line.

1479

9762.999999256013 vibrations

9763.999997988067 vibrations

9764.999998055984 vibrations

9766.000003201618 vibrations

9767.000000573138 vibrations

This system continues the musical score with similar notation. It includes a treble staff with a key signature of one sharp and a bass staff with a key signature of two sharps. The music features a variety of note values and rests, with some notes beamed together. The system ends with a double bar line.

1491

9768.000000979901 vibrations

9769.000001816212 vibrations

9770.000004389058 vibrations

9771.99999988237 vibrations

9772.999996992323 vibrations

9773.99999887386 vibrations

9771.000000865875 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of two sharps (F# and C#). The lower staff has a bass clef and a key signature of two sharps (F# and C#). The music consists of complex chords and melodic lines. Above the staves, there are seven numerical values representing vibrations, each associated with a specific note or chord in the music.

1499

9774.999997220397 vibrations

9775.99999873464 vibrations

9777.000000787411 vibrations

9778.000001045373 vibrations

9779.000001735614 vibrations

9780.000003407295 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of two sharps (F# and C#). The lower staff has a bass clef and a key signature of two sharps (F# and C#). The music consists of complex chords and melodic lines. Above the staves, there are six numerical values representing vibrations, each associated with a specific note or chord in the music.

1512

9780.999998714438 vibrations

9782.000000448033 vibrations

9783.000005081329 vibrations

9784.99999860995 vibrations

9784.000000720149 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of two sharps (F# and C#). The lower staff has a bass clef and a key signature of two sharps (F# and C#). The music consists of complex chords and melodic lines. Above the staves, there are five numerical values representing vibrations, each associated with a specific note or chord in the music.

1521

9785.99999679665 vibrations

9787.000001879764 vibrations

9787.999998738374 vibrations

9789.000001235274 vibrations

9790.000000738602 vibrations

9791.000000077976 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of two sharps (F# and C#). The lower staff has a bass clef and a key signature of two sharps (F# and C#). The music consists of complex chords and melodic lines. Above the staves, there are six numerical values representing vibrations, each associated with a specific note or chord in the music.

1534

9792.000000978493 vibrations

9793.000000905100 vibrations

9793.999999472770 vibrations

9795.000005906761 vibrations

9796.000002422295 vibrations

9796.999999064268 vibrations

This system contains two staves of music. The upper staff has a treble clef and a key signature of two sharps (F# and C#). The lower staff has a bass clef and a key signature of two sharps (F# and C#). The music consists of complex chords and melodic lines. Above the staves, there are six numerical values representing vibrations, each associated with a specific note or chord in the music.

1543

9798.000000319882 vibrations
9799.000000868387 vibrations
9800.000000408398 vibrations
9801.999999265092 vibrations
9800.999999011918 vibrations
9802.999999498918 vibrations
9803.999999824506 vibrations

1555

9804.999999824553 vibrations
9806.000001168149 vibrations
9806.999999366817 vibrations
9808.000000506756 vibrations
9809.000004342020 vibrations
9809.999998785919 vibrations

1566

9810.999998126288 vibrations
9811.999996256409 vibrations
9812.999999405269 vibrations
9814.000000824550 vibrations
9814.999999721978 vibrations
9815.999999149533 vibrations
9816.999999382426 vibrations

1573

9818.000003025389 vibrations
9819.000002421508 vibrations
9820.00000094282 vibrations
9821.000000273660 vibrations

1584

9822.000000085303 vibrations
9823.000000389215 vibrations
9824.000000187569 vibrations
9824.999999815764 vibrations
9825.999999681762 vibrations
9827.000000326641 vibrations
9828.000003560706 vibrations

1594

9829.000001674995 vibrations

9830.000000605023 vibrations

9830.999999559592 vibrations

9831.999998553265 vibrations

9832.999996490513 vibrations

9833.999998773728 vibrations

9834.999999834319 vibrations

1605

9836.000000497026 vibrations

9836.999996270713 vibrations

9837.999998809331 vibrations

9839.000000132173 vibrations

1615

9839.999998760393 vibrations

9841.000002129151 vibrations

9842.000002050196 vibrations

9842.999998420586 vibrations

1627

9843.999999054266 vibrations

9844.999999835309 vibrations

9845.999998591387 vibrations

9847.000001451073 vibrations

9848.000001100103 vibrations

1639

9848.999999172303 vibrations

9849.999999711861 vibrations

9850.999998473631 vibrations

9852.000001174534 vibrations

9853.000006322942 vibrations

9853.999997849229 vibrations

1650

9855.000001956401 vibrations
9855.999998101721 vibrations
9856.99999735497 vibrations
9857.999999079340 vibrations
9858.99999978796 vibrations
9859.99999526937 vibrations
9861.000000268365 vibrations

This system contains a piano score for measures 1650 to 1657. The right hand features a complex melodic line with many beamed sixteenth and thirty-second notes, while the left hand provides a dense harmonic accompaniment with frequent chords and moving lines. The key signature has two sharps (F# and C#).

1658

9862.000001243385 vibrations
9862.999999797261 vibrations
9864.000001666902 vibrations

This system contains a piano score for measures 1658 to 1665. The right hand continues with a melodic line, showing some rests and then re-entering with beamed notes. The left hand maintains a complex, rhythmic accompaniment. The key signature remains two sharps.

1670

9864.999999400912 vibrations
9866.000000059203 vibrations
9866.999999742520 vibrations
9867.999999564639 vibrations
9868.9999996435216 vibrations
9870.000000030384 vibrations
9871.000001812012 vibrations
9872.000005292239 vibrations

This system contains a piano score for measures 1670 to 1677. The right hand has a more active melodic line with many beamed notes. The left hand accompaniment is also very dense. The key signature has two sharps.

1681

9872.9999993052112 vibrations
9874.000000363172 vibrations
9875.0000000838465 vibrations
9876.0000000868433 vibrations
9877.0000000468746 vibrations
9878.000000058932 vibrations

This system contains a piano score for measures 1681 to 1688. The right hand features a melodic line with some rests and beamed notes. The left hand accompaniment is complex and rhythmic. The key signature has two sharps.

1691

9878.999999660991 vibrations
9879.999997203240 vibrations
9880.999999549049 vibrations
9881.9999996960218 vibrations
9883.0000000262837 vibrations
9883.999998177324 vibrations
9884.999997891195 vibrations

This system contains a piano score for measures 1691 to 1698. The right hand has a melodic line with some rests and beamed notes. The left hand accompaniment is complex and rhythmic. The key signature has two sharps.

1704

9885.999999952024 vibrations

9887.000001252633 vibrations

9888.000002243209 vibrations

9888.999999928001 vibrations

This system contains measures 1704 through 1715. The notation features a complex interplay of notes and rests in both staves, with numerous accidentals. The vibrato values are distributed across the measures, with the highest value of 9888.999999928001 appearing in measure 1715.

1716

9889.99999721613 vibrations

9891.00000170799 vibrations

9892.000000774588 vibrations

9893.000001753217 vibrations

9893.999997654000 vibrations

This system contains measures 1716 through 1725. The musical notation continues with dense clusters of notes and rests. The vibrato values range from 9889.99999721613 to 9893.999997654000, with the highest value occurring in measure 1725.

1726

9894.999997727255 vibrations

9896.000000874888 vibrations

9897.000002775121 vibrations

9898.000004192985 vibrations

9899.000000170850 vibrations

This system contains measures 1726 through 1735. The notation shows a continuation of the complex rhythmic and melodic patterns. The vibrato values are spread across the measures, with the highest value of 9899.000000170850 in measure 1735.

1735

9900.000000000002 vibrations

9900.999993536812 vibrations

9901.999998836878 vibrations

9902.9999988308789 vibrations

9904.000002822642 vibrations

9905.000002792471 vibrations

9906.000000437218 vibrations

This system contains measures 1735 through 1745. The musical notation includes a variety of note values and rests. The vibrato values range from 9900.000000000002 to 9906.000000437218, with the highest value in measure 1745.

1746

9907.000000969443 vibrations

9908.000004036767 vibrations

9908.999999188214 vibrations

9909.999998895593 vibrations

9910.999994681083 vibrations

9911.999999912412 vibrations

9912.999999810352 vibrations

This system contains measures 1746 through 1755. The notation features a dense arrangement of notes and rests. The vibrato values range from 9907.000000969443 to 9912.999999810352, with the highest value in measure 1755.

1754

9913.999998518668 vibrations
9915.000003151023 vibrations

9916.000000721924 vibrations

9916.999999102472 vibrations
9917.999999379686 vibrations

1765

9918.999999383586 vibrations
9920.000000009428 vibrations

9921.000002152998 vibrations
9921.9999993112939 vibrations
9923.000000314856 vibrations

9923.999999111673 vibrations
9924.999999762178 vibrations

9925.999996778099 vibrations

1774

9926.999998677735 vibrations
9928.000000581014 vibrations

9928.99999944153 vibrations
9930.000000096776 vibrations

9931.000000721660 vibrations

1787

9931.999999696063 vibrations

9932.999999274991 vibrations
9933.9999997621981 vibrations

9935.000002870982 vibrations
9935.999998470979 vibrations

9936.999999593745 vibrations

1800

9938.000005433334 vibrations

9938.999999053469 vibrations
9940.000001378899 vibrations
9941.000000545211 vibrations

9941.999997490702 vibrations

1811

9943.000000702248 vibrations
9943.999999849819 vibrations

9944.999998767496 vibrations

9945.99999940872 vibrations
9946.999997674407 vibrations

9947.999998440566 vibrations

9949.000000160439 vibrations
9950.999997894151 vibrations

9949.999998677977 vibrations

1820

9951.999996506909 vibrations
9953.000000240789 vibrations

9954.000000945198 vibrations
9954.999997838077 vibrations

9956.000001738597 vibrations

9957.000003969319 vibrations

1833

9957.999999566477 vibrations
9958.999998592710 vibrations

9959.999998356665 vibrations
9961.000000874459 vibrations
9962.000000358352 vibrations

9962.999999625050 vibrations

9964.000000218643 vibrations
9964.999997158326 vibrations

1843

9965.999997692659 vibrations
9966.999998671923 vibrations

9968.000001253697 vibrations
9968.999998718999 vibrations

9969.999998288633 vibrations
9971.000000379048 vibrations

1852

9971.99999944646 vibrations
9973.000000689441 vibrations

9973.999999113550 vibrations
9974.999999571592 vibrations

9975.999999242247 vibrations

1861

9976.99999893246 vibrations

9978.000001962564 vibrations

9979.000003062438 vibrations

9980.000000771990 vibrations

9981.000000157956 vibrations

9981.999998450741 vibrations

1871

9983.000001502200 vibrations

9984.000000163089 vibrations

9985.000000261029 vibrations

1883

9985.999997677165 vibrations

9986.999998777970 vibrations

9988.000002372770 vibrations

1895

9988.999999329708 vibrations

9990.000000167556 vibrations

9991.000001157801 vibrations

9992.000005860789 vibrations

9993.000001403308 vibrations

9993.999996843268 vibrations

1903

9995.000000607866 vibrations

9996.000000090597 vibrations

9996.999996078803 vibrations

9998.000001678420 vibrations

9998.99999648595 vibrations

10000.000004446045 vibrations